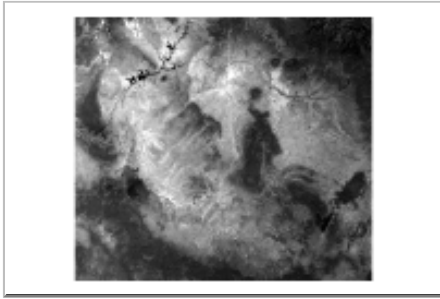


Landsat 7 ETM+ Panchromatic GeoCover Imagery



Data format: Raster Dataset - ERDAS IMAGINE

File or table name: NN_Landsat_ETM_Pan.img

Coordinate system: Universal Transverse Mercator

Theme keywords: GeoCover, Landsat 7, ETM+, Band 8, Panchromatic

Abstract: Landsat 7 ETM+ GeoCover panchromatic band 8 (0.52 - 0.90 μ m) data which has been orthorectified and processed to a higher quality standard. The GLCF GeoCover collection was produced under contract from NASA by EarthSat Inc. with locational information provided by NGA and USGS. The collection provides global, high resolution, multi-temporal imagery with corrections for distortions resulting from terrain. The data has been reviewed for geolocational and metadata accuracy through NASA Stennis and is free to redistribute. Users can take this imagery and use it to determine vegetation dynamics, urban sprawl, agricultural conversion, or apply it for numerous other uses. This dataset is a mosaic of scenes acquired in May, June, and September 2000 that covers the Navajo Nation.

FGDC and ESRI Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
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- [Distribution Information](#)
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Metadata elements shown with blue text are defined in the Federal Geographic Data Committee's (FGDC) [Content Standard for Digital Geospatial Metadata \(CSDGM\)](#). Elements shown with green text are defined in the [ESRI Profile of the CSDGM](#). Elements shown with a green asterisk (*) will be automatically updated by ArcCatalog. ArcCatalog adds hints indicating which FGDC elements are mandatory; these are shown with gray text.

Identification Information:

Citation:

Citation information:

Originators: NASA Stennis Space Center's Commercial Remote Sensing Program

Title:

Landsat 7 ETM+ Panchromatic GeoCover Imagery

***File or table name:** NN_Landsat_ETM_Pan.img

Edition: 2000

***Geospatial data presentation form:** remote-sensing image

Publication information:

Publication place: Stennis Space Center, MS

Publisher: NASA Stennis Space Center

Other citation details:

The Global Land Cover Facility (GLCF) is sponsored by the University of Maryland, and is located within the University of Maryland Institute for Advanced Computer Studies (UMIACS). The GLCF is also associated with the UMD Department of Geography. Geocover component data for the mosaic was acquired at <http://glcfapp.umiacs.umd.edu:8080/esdi/index.jsp>

***Online linkage:**

\\Terra_dc\Navajo\NAUM_NN_Summary\DB\Satellite\NN_Landsat_ETM_Pan.img

Description:

Abstract:

Landsat 7 ETM+ GeoCover panchromatic band 8 (0.52 - 0.90µm) data which has been orthorectified and processed to a higher quality standard. The GLCF GeoCover collection was produced under contract from NASA by EarthSat Inc. with locational information provided by NGA and USGS. The collection provides global, high resolution, multi-temporal imagery with corrections for distortions resulting from terrain. The data has been reviewed for geolocational and metadata accuracy through NASA Stennis and is free to redistribute. Users can take this imagery and use it to determine vegetation dynamics, urban sprawl, agricultural conversion, or apply it for numerous other uses. This dataset is a mosaic of scenes acquired in May, June, and September 2000 that covers the Navajo Nation.

Purpose:

This dataset was developed to support the U.S. Environmental Protection Agency (USEPA) in its undertaking of an extensive scientific study to determine if abandoned uranium mines (AUM) and related mine features pose a significant risk to human health and the environment, and to identify areas requiring action to reduce risk for the Navajo Nation.

Supplemental information:

This is a mosaic of Landsat 7 ETM+ GeoCover panchromatic band 8 (0.52 - 0.90µm) image data. The following are the Path/Row component scenes with the scene acquisition dates:

Path/Rows	Acquired
=====	=====
34/34	08/26/2002
34/35	06/04/2001
34/36	06/04/2001
35/34	09/12/2000
35/35	09/12/2000
35/36	09/12/2000
36/34	05/30/2000
36/35	06/15/2000
36/36	06/02/2001
37/34	06/06/2001
37/35	06/06/2000
37/36	06/06/2000
38/34	07/18/2000

***Language of dataset:** en

Time period of content:

Time period information:

Range of dates/times:

Beginning date: 5/30/2000

Ending date: 08/26/2002

Currentness reference:

ground condition

Status:

Progress: Complete

Maintenance and update frequency: None planned

Spatial domain:

Bounding coordinates:

***West bounding coordinate:** -112.536367

***East bounding coordinate:** -106.963995

***North bounding coordinate:** 37.947654

***South bounding coordinate:** 33.979067

Local bounding coordinates:

***Left bounding coordinate:** 364992.875000

***Right bounding coordinate:** 855007.625000

***Top bounding coordinate:** 4200007.125000

***Bottom bounding coordinate:** 3766493.625000

Keywords:

Theme:

Theme keywords: GeoCover, Landsat 7, ETM+, Band 8, Panchromatic

Theme keyword thesaurus: None

Place:

Place keywords: Navajo Nation, Arizona, Colorado, New Mexico, Utah, United States

Place keyword thesaurus: None

Access constraints: None

Use constraints:

This Landsat 7 ETM+ GeoCover data presents only the 14.25 meter band 8 panchromatic dataset. This dataset is a mosaic that covers only the Northern Abandoned Uranium (AUM) Region, including the Navajo Nation.

Use of this data generally requires computer workstations with ESRI's Arc/Info (8.x or above), ArcGIS (8.x or above), or ArcView (3.x), or some other GIS or CAD software that is capable of reading or converting this dataset.

The data are provided "as-is," without warranty of any kind, either express or implied.

These data have been compiled as part of a desktop project to collect existing spatial data to support the study of Navajo abandoned uranium mines. No field verifications were undertaken as part of this desktop study.

Point of contact:

Contact information:

Contact organization primary:

Contact organization: U. S. Environmental Protection Agency, Region 9,
Superfund Program

Contact address:

Address type: mailing and physical address

Address:

75 Hawthorne St (SFD 8-2)

City: San Francisco

State or province: CA

Postal code: 94105

Country: USA

Contact voice telephone: 415-972-3167

Data set credit:

The Congress of the United States provided NASA with funding to operate a Science Data Purchase, through the auspices of the NASA Stennis Space Center's Commercial Remote Sensing Program, now part of their Earth Science Applications Directorate. NASA Stennis solicited commercial remote sensing companies for potential imagery products of high science integrity. MDA Federal Inc. was awarded a contract to generate the Landsat GeoCover product as a component of the Science Data Purchase. MDA Federal was provided access to the large pool of Landsat data necessary for the product, which they then processed until they had a collection of scenes covering the land surface of the globe. These scenes were orthorectified by MDA Federal, and the result was then validated by NASA Stennis.

Security information:

Security classification system: None

***Native dataset format:** Raster Dataset

***Native data set environment:**

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 9.1.0.780

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Data Quality Information:**Attribute accuracy:**

Attribute accuracy report:

NA

Logical consistency report:

None

Completeness report:

This Landsat 7 ETM+ GeoCover data presents only the 15 meter band panchromatic dataset. This dataset is a mosaic that covers only the Northern Abandoned Uranium (AUM) Region, including the Navajo Nation.

Positional accuracy:

Horizontal positional accuracy:

Horizontal positional accuracy report:

14.25m pixel size with a 50m RMSe (Root Mean Square error)

Lineage:**Source information:****Source scale denominator:** NA**Type of source media:** FTP**Source citation abbreviation:**

GeoCover

Source contribution:

Landsat 7 ETM+ GeoCover panchromatic band 8 (0.52 - 0.90 μ m) data was
 acaured from UMIACS at <http://glcfapp.umiacs.umd.edu:8080/esdi/index.jsp>

Process step:**Process description:**

Path/Rows 34/34-36, 35,34-36, 36/34-36, 37/34-36, and 38/34 were dwonloaded
 from UMIACS. ERDAS Imagine 8.7 was used to mosaic the band 8 panchromatic
 scenes into one large image mosaic.

Process software and version: ERDAS Imagine 8.7**Process date:** February 2006**Source used citation abbreviation:**

GeoCover

Process contact:**Contact information:****Contact organization primary:****Contact organization:** TerraSpectra Geomatics**Contact address:****Address type:** mailing and physical address**Address:**

2700 E Sunset Rd, Ste A-10

City: Las Vegas**State or province:** NV**Postal code:** 89120**Country:** USA[Back to Top](#)

Spatial Data Organization Information:***Direct spatial reference method:** Raster**Raster object information:*****Image format:** ERDAS IMAGINE***Number of bands:** 1***Row count:** 30422***Column count:** 34387***Vertical count:** 1***Cell size X direction:** 14.250000***Cell size Y direction:** 14.250000***Bits per pixel:** 8

*Pyramid layers: TRUE
 *Image colormap: FALSE
 *Compression type: None

 *Raster object type: Pixel
 *Raster display type: pixel codes
 *Raster origin: Upper Left

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Spatial Reference Information:

Horizontal coordinate system definition:

Coordinate system name:

*Projected coordinate system name: NAD_1983_UTM_Zone_12N
 *Geographic coordinate system name: GCS_North_American_1983

Planar:

Grid coordinate system:

*Grid coordinate system name: Universal Transverse Mercator
 Universal Transverse Mercator:

*UTM zone number: 12

Transverse mercator:

*Scale factor at central meridian: 0.999600
 *Longitude of central meridian: -111.000000
 *Latitude of projection origin: 0.000000
 *False easting: 500000.000000
 *False northing: 0.000000

Planar coordinate information:

*Planar coordinate encoding method: row and column

Coordinate representation:

*Abscissa resolution: 14.250000
 *Ordinate resolution: 14.250000
 *Planar distance units: meters

Geodetic model:

*Horizontal datum name: North American Datum of 1983
 *Ellipsoid name: Geodetic Reference System 80
 *Semi-major axis: 6378137.000000
 *Denominator of flattening ratio: 298.257222

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Entity and Attribute Information:

Detailed description:

*Name: Layer_1

Entity type:

*Entity type label: Layer_1
 *Entity type type: Table
 *Entity type count: 231

Attribute:

- * **Attribute label:** ObjectID
- * **Attribute alias:** ObjectID
- * **Attribute definition:**
Internal feature number.
- * **Attribute definition source:**
ESRI

- * **Attribute type:** OID
- * **Attribute width:** 4
- * **Attribute precision:** 0
- * **Attribute scale:** 0

Attribute domain values:

- * **Unrepresentable domain:**
Sequential unique whole numbers that are automatically generated.

Attribute:

- * **Attribute label:** Value
- * **Attribute alias:** Value
- * **Attribute type:** Integer
- * **Attribute width:** 0
- * **Attribute precision:** 0
- * **Attribute scale:** 0

Attribute:

- * **Attribute label:** Count
- * **Attribute alias:** Count
- * **Attribute type:** Double
- * **Attribute width:** 0
- * **Attribute precision:** 0
- * **Attribute scale:** 0

Overview description:**Entity and attribute overview:**

Landsat 7 ETM+ GeoCover panchromatic band 8 (0.52 - 0.90µm).

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Distribution Information:**Distributor:****Contact information:****Contact organization primary:**

Contact organization: U. S. Environmental Protection Agency, Region 9,
Superfund Records Center

Contact address:

Address type: mailing address

Address:

95 Hawthorne St (SFD-7C)

City: San Francisco
State or province: CA
Postal code: 94105
Country: USA

Contact voice telephone: 415-536-2033

Resource description: Downloadable Data

Distribution liability:

Although these data have been processed successfully on a computer system for the USEPA, no warranty expressed or implied is made by the USEPA or its contractors regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. No responsibility is assumed by USEPA or its contractors in the use of these data.

Standard order process:

Digital form:

Digital transfer information:

***Transfer size:** 1088.124

***Dataset size:** 1088.124

Custom order process:

Contact the USEPA for a custom order.

Technical prerequisites:

Use of this data generally requires computer workstations with ESRI's Arc/Info (8.x or above), ArcGIS (8.x or above), or ArcView (3.x), or some other GIS or CAD software that is capable of reading or converting this dataset.

Available time period:

Time period information:

Single date/time:

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Metadata Reference Information:

***Metadata date:** 20070730

***Language of metadata:** en

Metadata contact:

Contact information:

Contact person primary:

Contact person: Andrew Bain

Contact organization: U. S. Environmental Protection Agency, Region 9,
Superfund Program

Contact position: Project Manager

Contact address:

Address type: mailing and physical address

Address:

75 Hawthorne St (SFD 8-2)

City: San Francisco

State or province: CA

Postal code: 94105

Country: USA

Contact voice telephone: 415-972-3167

***Metadata standard name:** FGDC Content Standards for Digital Geospatial Metadata

***Metadata standard version:** FGDC-STD-001-1998

***Metadata time convention:** local time

Metadata access constraints: None.

Metadata use constraints:

None.

Metadata security information:

Metadata security classification system: None

Metadata extensions:

***Online linkage:** <http://www.esri.com/metadata/esriprof80.html>

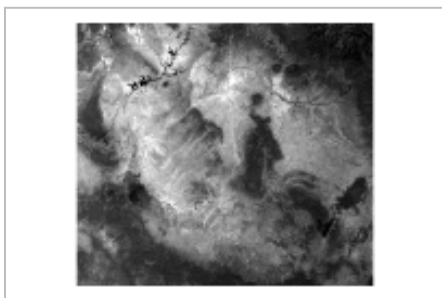
***Profile name:** ESRI Metadata Profile

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Binary Enclosures:

Thumbnail:

Enclosure type: Picture



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